## SYSTEMS & SYNTHETIC BIOLOGY (SSB)

## SSB 099 - Special Study for Undergraduates (1-5 units)

Course Description: Special study for undergraduates. Prerequisite(s): Consent of instructor. Learning Activities: Variable 3-15 units. Repeat Credit: May be repeated for credit. Grade Mode: P/NP only.

## SSB 134 – Systems Biology: From Biological Circuits to Biological Systems (3 units)

*Course Description:* Application of systems theory to understanding the properties of biological networks in a variety of model organisms. Local biological circuits and genome-scale biological networks. Network motifs, robustness, modeling, emergent properties and integration of networks. *Prerequisite(s):* (BIS 101 or BIS 101V); (MCB 121 or PLB 113); (MAT 016C or MAT 017C or MAT 019C or MAT 021B or MAT 021BH); or consent of instructor; BIS 015L recommended.

Learning Activities: Lecture/Discussion 3 hour(s).

Credit Limitation(s): Not open for credit if student has taken BIS 134.

Grade Mode: Letter.

General Education: Science & Engineering (SE).

## SSB 199 – Special Study for Advanced Undergraduates (1-5 units)

*Course Description:* Special studies for advanced undergraduates. *Prerequisite(s):* Consent of instructor. *Learning Activities:* Variable 3-15 hour(s). *Repeat Credit:* May be repeated for credit. *Grade Mode:* P/NP only.